Water Manager Models BW & BW-PRV
Installation & Operating Instructions

APPLICATION and DESIGN

Ammark Water Manager Models BW and BW-PRV are designed for application in potable water systems for sediment removal and pressure reduction (BW-PRV only). Water Manager filters are not intended for health-effect treatment of water supply. Install only with Ammark Water Manager universal flange kit.

- Operating Medium: Potable Water
- Min Inlet Pressure: 28.5 psi
- Max Inlet Pressure: 225 psi
- Outlet Pressure: 21-85 psi (BW-PRV only)
- Factory Setting: 60 psi (BW-PRV only)
- Max Water Temp: 86 ºF
- Screen Size: 20 microns
- Max Flow: 20 gpm @ 2.8 psi dP (BW)
  20 gpm @ 18.5 psi dP (BW-PRV)

FLANGE INSTALLATION

Each flange kit is supplied with a flange, two nuts, two tailpieces and two sealing rings. The flange may be installed in horizontal or vertical pipe runs (figure 1) with flow in the direction of the raised arrow marked on the flange. The flange should be installed so that it is free of stress. For proper operation and maintenance of the Water Manager Filter, it is important to install isolating valves on either side of the flange.

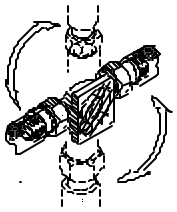

Figure 1

The flange kit is assembled with the sealing rings between the union tailpiece and flange body. No other method of sealing should be used or is required between the tailpiece and the flange body. Observe the minimum distance of 2" between the center pipe of the flange and nearby wall and 16" between the center pipe of the flange and the floor. Make sure that the flange is mounted with its face completely vertical (parallel to the wall) (figure 2). The transparent adhesive label, which protects the sealing surface, should remain attached to the flange until final assembly.

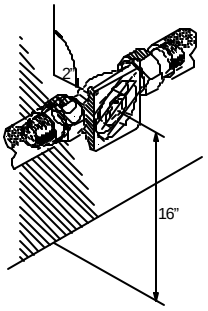

Figure 2

FILTER INSTALLATION

Each BW and BW-PRV Model is supplied with four set screws to secure the filter to the flange, a gasket to seal the filter/flange connection, and a combination tool, which is used to tighten the set screws and aids pressure setting adjustment (BW-PRV only).

- **DO NOT EXPOSE THE FILTER BODY TO FREEZING, CHEMICALS, DYES, OR SOLVENTS.**
- **CLEAN WITH COLD WATER ONLY.**
- **DO NOT INSTALL IN AREAS EXPOSED TO DIRECT SUNLIGHT.**

Remove the adhesive label from the flange and rinse the pipe thoroughly (figure 3). The filter must be installed vertically with the filter bowl at the bottom. Attach the filter body to the flange with the gasket between the filter body and the flange.

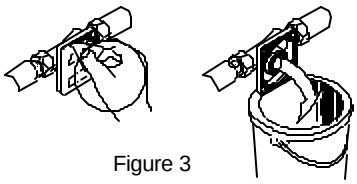

Figure 3

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FILTER INSTALLATION (continued)

Use the combination tool to tighten the set screws in a diagonal sequence (figure 4) to help insure that the filter is seated properly and the joint between filter and flange is sealed pressure-tight.

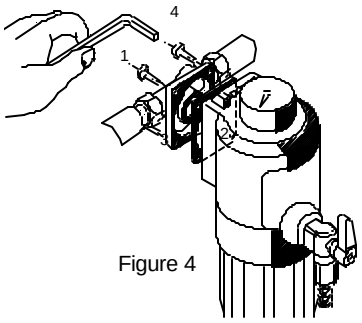

Figure 4

Make sure that the ball valve is in the "Operation" position. Open the isolating valves to allow flow and observe the filter under pressure to make sure all joints are sealed correctly. The handle of the ball valve is equipped with an electronic timer to indicate that the maintenance (backwash) function should be performed. Remove the small yellow slip of paper from the ball valve's handle to activate the timer. The LED will flash twice to indicate that the timer is operating.

FILTER MAINTENANCE

Backwash the filter at least once every month (more often in systems with large amounts of sand and sediment). As a reminder, the LED built into the handle will flash to indicate that 60 days have elapsed since the last reset. A decrease in flow rate is an indication that the backwash procedure is required, however to maintain the filter in top operating order, do not wait for substantial flow reduction before performing the backwash function.

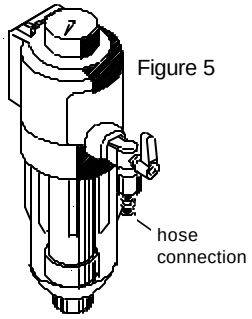

Figure 5

Backwash the filter as follows:

- Connect a drain hose to the hose connection or position a container under the drain valve (figure 5).
- Slowly rotate the activation handle from the "Operation" position to the "Backwash" position (figure 6). After a few seconds rotate the handle back to the "Operation" position.
- Repeat this procedure twice (more in cases of heavier sediment deposits).
- At completion, make sure the handle is in the "Operation" position.
- Reset the timer by pressing the red button on the handle. The LED will flash twice to indicate reset. If the LED flashes 20 times after pressing the reset, battery replacement is required (figure 7).

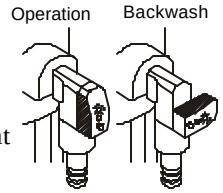

Figure 6

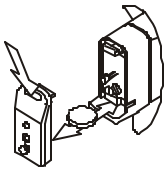
Figure 7

ADJUSTING OUTLET PRESSURE (BW-PRV Only)

Model BW-PRV is supplied with outlet pressure factory-set at 60 psi. The outlet pressure must be set at least 15 psi lower than the inlet pressure. Adjust outlet pressure as follows while referring to the illustration (figure 8):

- Undo the hex nut (4) by one quarter turn (-) using the combination tool.
- Relieve the setpoint spring by turning the setting handle (4) counter-clockwise (-).
- Close valve (1) and (2).
- Open the valve (3) and close it again.
- Slowly open valve (1) again.
- Set the desired outlet pressure by turning the setting handle (4) clockwise (+) until the desired outlet pressure is reached as indicated by the pressure gauge.
- Slowly open valve (2) again.
- Retighten the hex nut (4).

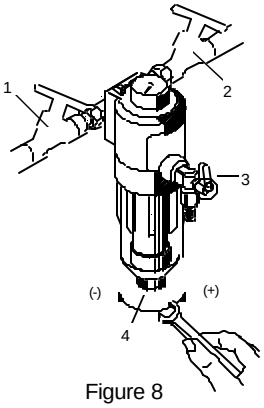

Figure 8

Occasionally, the pressure gauge may indicate an apparent increase in outlet pressure when no water is being consumed. This effect is caused by a closed downstream hot water heater. This effect will not harm the water manager and does not indicate the need to readjust the outlet pressure.

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